1		60
61	ATCCGAAAGAGCTGTCAGCCGCCGGGCTGCACCTAAAGGCGTCGGTAGGGGGATAAC	120
121	AGTCAGAGACCCTCCTGAAAGCAGGAGACGGGACGGTACCCCTCCGGCTCTGCGGGGCGG	130
181	CTGCGGCCCCTCCGTTCTTTCCCCCCCCAGAGACACTCTTCCTTTCCCCCCACGAAG	240
241	ACACAGGGGCAGGAACGCGAGGGCTGCCCCTCCGCCATGGGAGGCCGCTTCCTGCTGACG	300

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CTGAAGCTGCAGGAGTTTGTCAACAAGAAGGGGCTGCTCAGCAACCGCAACTGCTGCCGG
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GCGGGCGGCCCGGAGCGCCGGCAGCAGCAGCACTGCAACTGC
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ATCACCCCGTCCTCGGCGCCAACTCCTTCAGCGTCCCCGACGGGGGGGG
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CGCCTCATCAGCCGCCTGGCCACCCAGAGGCACCTGGCGGTGGGCGAGGAGTGGTCCCAG	
CGCCTCATCAGCCGCCTGGCCACCCAGAGGCACCTGGCGGTGGGCGAGGCTAGGCAACACTCCCCAGAGGCACCCAGAGGCACCCAGAGGCAACACTCCCCAGAGGCAACACCCAGAGGCAACACCCAGAGGCAACACCCAGAGGCAACACCCAGAGGCAACACCCAGAGGCAACACCCAGAGGCAACACCCAGAGGCAACACCCAGAGGCAACACCAGAGGCAACACCAGAGGCAACACCAGAGGCAACACACACACACACACACACACACACACACACACACAC	
721	
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GACCTGCACAGCAGCGGCCGGACCGACCTCAAGTACTCCTATCGCTTTGTGTGTG	
GACCTGCACAGCAGCGGCCGGACCGACCTA	
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CACTACTACGGGGAAGGCTGCTCTGTCTTCTGCCGGCCCCGTGACGACCGCTTCGGTCAC	
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ACTGAGCCGATTTGCTTGCCTGGGTGTGACGAGCACGGCTTCTGCGACAAACCTGGG 1020	
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GGCTGCCTGCACGGTAGGTAGGTAGGTAGGTAGGTAGGTA	

1141	GGCCTTTTCTGCAACCAGGACCTGAACTACTGCACTCACCACAAGCCATGCAAGAATGGT	1200
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		•
1201	CGGTGTACGTGGTTGTGGCCAGTCCCCTCCATGTGAACAAGAACGGCTGGACCCATGTGT	3260
	· _	
		•
1261	GGCTCCAGCTGCGAGATTGAAATCAACGAATGTGATGCCAACCCTTGCAAGAATGGTGGA	1320
1321	AGCTGCACGGATCTCGAGAACAGCTATTCCTGTACCTGCCCCCAGGCTTCTATGGTAA	A + 1380
138:	AACTGTGAGCTGAGTGCAATGACTTGTGCTGATGGACCGTGCTTCAATGGAGGGCGATG	C + 1440
	•	
	•	
144	ACTGACAACCCTGATGGTGGATACAGCTGCCGCTGCCCACTGGGTTATTCTGGGTTCA	AC -+ 1500
	•	
	TOTALLA A A GARAAT CONTRACTGCAGTTCCAGCCCTTGTGCTAATGGAGCCCAGTGCC	TT 1560

1561	GACCTGGGGAACTCCTACATATGCCAGTGCCAGGCTGGCT	1620
1621	GACAACGTGGACGATTGCGCCTCCTTCCCCTGCGTCAATGGAGGGACCTGTCAGGATGGG	1680
1681	GTCAACGACTACTCCTGCACCTGCCCCCGGGATACAACGGGAAGAACTGCAGCACGCCG	1740
1741	GTGAGCAGATGCGAGCACAACCCCTGCCACAATGGGGCCACCTGCCACGAGAGAAGCAAC	1800 <sub>.</sub>
160:	CGCTACGTGTGCGAGTGCGCTCGGGGCTACGGCGGCCTCAACTGCCAGTTCCTGCTCCCC	1860
186	GAGCCACCTCAGGGGCCGGTCATCGTTGACTTCACCGAGAAGTACACAGAGGGCCAGAAC 1	: • 1920

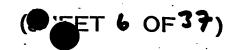


FIG. 1A (cont'd)

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1 GAATTCGGCACGAGGTTTTTTTTTTTTTTTTTCCCCTCTTTTCTTTC	69
70 AGCTGTCAGCCGCCGGGGCTGCACCTAAAGGCGTCGGTAGGGGGATAACAGTCAGAGACCCTCCTGA	138
- 139 AAGCAGGAGACGGACGGTACCCCTCCGGCTCTGCGGGCGG	207
208 CCCGAGAGACACTCTTCCCTTTCCCCCACGAAGACACAGGGGCAGGGAACGCGAGCGCTGCCCCTCCGCC	276
277 ATGGGAGGCCGCTTCCTGCTGACCCTCGCCTCCTCTCGGCGCTGCCGGCTGCCAGGTTGACGGC	345
346 TCCGGGGTGTTCGAGCTGAAGCTGCAGGAGTTTGTCAACAAGAAGGGGGCTGCTCAGCAACCGCAACTG	c 414
•	40



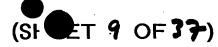


484 CTGAAGCACTACCAGGCCAGCGTCTCCCCCGAGCCGCCCTGCACCTACGGCAGCGCCAT

622 CGCTTCCCCTTCGGCTTCACCTGGCCCGGCACCTTCTCGCTCATCATCGAGGCTCTGC:

691 CCCGACGACCTCACCACAGAAAACCCCGAGCGCCTCATCAGCCGCCTGGCCACCCAGA

760 GTGGGGAGGAGTGCTCCAGGACCTGCACAGCAGCGGCCGCACGGACCTCAAGTAC



GTGTGATGAGCACTACTACGGGGAAGGCTGCTCTGTCTTCTGCGGGGCCCCGTGACGACCGCTTCGGT 697

898(CACTTCACCTGTGGAGAGCGTGGCGAGAAGGTCTGCAACCCAGGCTGGAAGGGCCAGTACTGCACTGAG 966

967 CCGATTTGCTTGCCTGGGTGTGACGAGCAGCACGCTTCTGCGACAAACCTGGGGAATGCAAGTGCAGA 1035

1105 CAGCCATGGCAGTGCAACTGCCAGGAAGGCTGGGGCGGCCTTTTCTGCAACCAGGACCTGAACTACTGC 1173

1174 ACTCACCACAAGCCATGCAAGAATGGTGCCACATGCACCAACACCGGTCAGGGGAGCTACACTTGTTCT 1242

1243 TGCCGACCTGGGTACACAGGCTCCAGCTGCGAGATTGAAATCAACGAATGTGATGCCAACCCTTGCAAG 1311

1450 CCTGATCGTGGATACAGCTGCCCGCTGCCCACTGGGTTATTCTGGGTTCAACTGTGAAAAGAAAATCGAT 1518

1519 TACTGCAGTTCCAGCCCTTGTGCTAATGGAGCCCAGTGCGTTGACCTGGGGAACTCCTACATATGCCAG 1587

1588 TCCCAGGCTGCCTTCACTGCCAGGCACTGTGACGACGACGACGACTGCGCCTCCTTCCCCTGCGTC 1656

1657 AATGGAGGGACCTGTCAGGATGGGGTCAACGACTACTCCTGCACCTGCCCCCCGGGATACAACGGGAAG 1725

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1726 AACTGCAGCACGCCGGTGAGCAGATGCGAGCACAACCCCTGCCACAATGGGGCCACCTGCCACGAGAGA 1794

1795 AGCAACCGCTACGTGTGCGAGTGCGCTCGGGGCTACGGGGCCTCAACTGCCAGTTCCTGCCGGGG 1863

1864 CCACCTCAGGGGCCGGTCATCGTTGACTTCACCGAGAAGTACACAGAGGGCCAGAACAGCCAGTTTCCC 1932

1933 TEGATCECAGTGTGCGCCGGGATTATTCTGGTCCTCATGCTGCTGCTGGGTTGCGCCGCCATCGTCGTC 2001

2002 TGCGTCAGGCTGAAGGTGCAGAAGAGGCACCACCACCAGCCCGAGGCCTGCAGGAGTGAAACGGAGACCATG 2070

2071 AACAACCTGGCGAACTGCCAGCGGGAGAAGGACATCTCCATCAGCGTCATCGGTGCCACTCAGATTAAA 2139

2140 AACACAAATAAGAAAGTAGÄCTTTCACAGCGATAAACTCCGATAAAAAACGGCTACAAAGTTAGATACCCA 2208



2209 TCAGTGGATTACAATTTGGTGCATGAACTCAAGAATGAGGACTCTGTGAAAGAGGAGCATGGCAAATGC 2277

2347 ACTTCTGAAAGAAAACGGCCAGATTCAGTATATTCCACTTCAAAGGACACAAAGTACCAGTCGGTGTAC 2415

2416 GTCATATCAGAAGATGAGTGCATCATAGCAACTGAGTTAGTATCCCACCTGGCAGTCGGACA 2484

2485 AGTCTPGGTGTGTGATTCCCATCPAGCGCAGGTCAGGGCGGCCAAACCATTCTACCTGCTGCCACAGTC 2553

2554 ATCTGTACCCAATGAAAACTGGCCACCTTCAGTCTGTGGCACTGCAGACGTTGAAAAAACTTGTTGTGG 2622

2623 ATTABOLITA ACCTOCACTOCACTOCACITACACCCACACCAATTTTTGCAGGCAAGGGTATAACTGTAGTGCA 2691

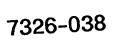
2682 GTREPACCUTACTAACCCTACTGACTCATTCTTTCGTGTGCTTCCTGCAGAGCCTGTTPTTTGCTTGGCA 2760

2830 TCTGCTTGTGTTTTCTCTCAACKGGTGTAAAKLAGACGTGACGTGGGAAAGCTT 2883



1	MGGRFLLTLA	LLSALLCRCQ	VDGSGVFELK	LQEFVNKKGL	LSNRNCCRGG	GPGGAGQQQC
61	DCKTFFRVCI.	KHYOASVSPE	PPCTYGSAIT	PVLGANSFSV	PDGAGGADPA	FSNPIRFPFG
121	FTWPGTFSLI	IEALHTDSPD	DLTTENPERL	ISRLATORHL	AVGEEWSQDL	HSSGRTDLKY
1.81.	SYREVCDEHY	YGEGCSVFCR	PRDDRFGHFT	CGERGEKVCN	PGWKGQYCTE	PICLPGCDEQ
241	HGECDKEGEC	KCRVGWOGRY	CDECIRYPGC	LHGTCOOPWO	CNCOEGWGGL	FCNODLNYCT
301	HHKPCKNGAT	CTNTGOGSYT	CSCRPGYTGS	SCEIEINECD	ANPCKNGGSC	TDLENSYSCT
361	CPPGFYGKNC	ELSAMTCADG	PCFNGGRCTD	NPDGGYSCRC	PLGYSGFNCE	KKIDYCSSSP
421	CANGAOCVDI.	<b>GNSYTCOCOA</b>	<b>GFTGRHCDDN</b>	VDDCASFPCV	NGGTCQDGVN	DYSCTCPPGY
481	NGKNCSTPVS	RCEHNPCHNG	ATCHERSNRY	VCECARGYGG	LNCQFLLPEP	PQGPVIVDFT
541	EKYTEGONSO	<b>FPWIAVCAGI</b>	ILVIMILLGC	AAIVVCVRLK	VOKRHHOPEA	CRSETETMON
601	LANCOREKDT	STSVTGATOI	KNTNKKVDFH	SDNSDKNGYK	VRYPSVDYNL	VHELKNEDSV
661	KEEHGKCEAK	CETYDSEAEE	KSAVQLKSSD	TSERKRPDSV	YSTSKDTKYQ	SVYVISEEKD
	ECIIATEV					

FIG. 2





C-Delta-1 X-Delta-1	1	MGGRFLLTLA-LLSALLCRCOVDGSGVFELKLQEFVNKKGLLSNRNCCRGGGPGGAGOOOC 60 MGOORMLTLL-VLSAVLCOISCSGLFELRLQEFVNKKGLLGNMMCCRPGSLASLORC 56 HHWIKCLLTAPICFTVIVOVHSSGSPELRLKYPSNDHGRDNEGRCCSGESDGATGKÇLG 59
Delta-1 X-Delta-1	1 61 57 60	DCKTFFRVCLKHYQASVSPEPPCTYGSAITPVLGAMSFSVPDGAGGADPAFSNPIRPPGF 121 ECKTFFRICLKHYQSNVSPEPPCTYGGAVTPVLGTMSEVVPES-SNADPTPSNPIRPPFGP 116 SCKTRFRLCLKHYQATIDTTSQCTYGDVITPILGEMSVNLTDAQRFQNKGFTMPIQFPPSP 120
Delta C-Delta-1 X-Delta-1 Delta	122 117 121	TWPGTFSLIIBALHTDSPDDLTTENPERLISRLATQRHLAVGBEWSQDLHSSGRTDLKYSY 182 TWPGTFSLIIBALHADSADDLNTENPERLISRLATQRHLTVGEQWSQDLHSSDRTELKYSY 177 SWPGTFSLIVEAWH-DTNNSGNARTNKLLIQRLLVQQVLEVSSEWKTNKSESQYTSLEYDP 180
C-Delta-1 X-Delta-1 Delta	183 178 181	R F V C D E H Y Y G E G C S D Y C R P R D D R F G H P T C G E R G E K V C N P G W K G D Y C T E P I C L P G C D E H H G Y 238  R F V C D E Y Y Y G E G C S D Y C R P R D D D S F G H S T C S E T G E I I C L T G W Q Q D Y C H I P K C A K G C E - H G H 239
C-Delta-1 X-Delta-1	244 239 240	CDKPGECKCRVGWQGRYCDECIRYPGCLHGTCQQPWQCNCQEGWGGLPCNQDLNYCTHHKP 304 CDKPGECKCRVGWQGRYCDECIRYPGCLHGTCQQPWQCNCQEGWGGLPCNQDLNYCTHHKP 299
Delta C-Delta-1 X-Delta-1	305 300	EGF1  CKNGATCTNTGQGSYTCSCRPGYTGSSCEIEINECDANPCKNGGSCTDLENSYSCT 360 CENGATCTNTGQGSYTCSCRPGYTGSNCEIEVNECDANPCKNGGSCSDLENSYTCS 355 CKNGGTCPNTGEGLYTCKCAPGYSGDDCENEIYSCDADVNPCQNGGTCIDEPHTKTGYKCH 361 EGF4
Delta C-Delta-1 X-Delta-1	301 361 356	EGF4  EGF3  CPPGFYGKNCELSAMTCADGPCFNGGRCTDNPDGGYSCRCPLGYSGFNCEKKIDYC 416
Desta  Desta  C.Delta-1	362	EGF5 EGF5
X-Delta-1 Delta	412 423	SENECANGARCEDLGNSYICOCOEGES GRACETNIEDCLGHOCENGGT CIDMVNOYRCOCV 480 SPNECINGG SCOPSGK CICEPSGESGTRCETNIEDCLGHOCENGGT CIDMVNOYRCOCV EGF6  EGF6  - 534
C-Delta-l X-Delta-l Delta	478 473 481	PGYIGKNCSMPITKCEHNPCHNGATCHERNNATYCOTCRAGFTGKDCSVDIDECSSGPCHNG 541 PGFHGTHCSSKVDLCLIRPCANGGTCLNLNNDYQCTCRAGFTGKDCSVDIDECSSGPCHNG 541 EGF8
C-Belta-1 X-Delta-1 Delta	535 525 542	GTCHNRVNSPECVCANGFRGKQCDEESYDSVTFDAHQYGATTQARADGLANAQVVLIIAVFS 602 ——EGF9
C-Delta-1 X-Delta-1 Delta	565 558 603	MLLLGCAAVVVCVRVRVOKRRHOPEACRGESKTHNNLANCOREKDIISVSFILGITVIKALI
C-Delta-1 X-Delta-1 Delta	624 617 664	NKKVDFHSD-NSDKNGYKVRYPSVDYNLVHELKNEDSVKEEHGKCEAKCETYDSEAEERSA 683 NKKIDFLSESNNEKNGYKPRYPSVDYNLVHELKNEDSPKEERSKCEAKCSSNDSDSEDVNS 677 NKKIDFLSESNNEKNGYKPRYPSVDYNLVHELKNEDSPKEERSKCEAKCSSNDSDSEDVNS 677
C-Delta-1 X-Delta-1 Delta	684 678 724	728VQLKSSDTSERKRPDSVYSTSKDTKYQSVYVISEEKDECIIATEV 721VHSK-RDSSERR
Delta	78	832

C-Delta-1 Delta Serrate	182 235	144-61	TECTTFCRPR	DDSFGHSTCS	228 226 279
C-Serrate-1		M-01		<b>13</b> -	 172 166
lag-2	120	<b>TICIARNY</b> FGN	K-CENTON.		

FIG. 4

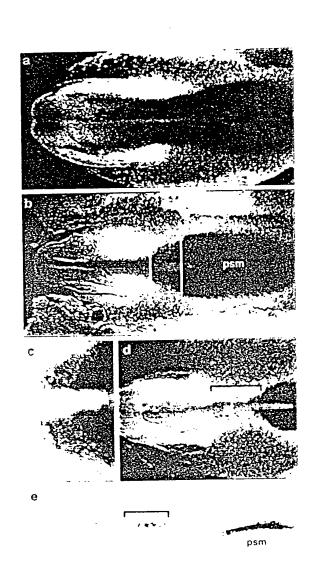
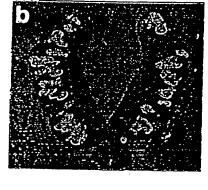


FIG. 5



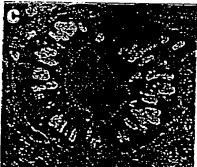


FIG. 6B

FIG. 6C

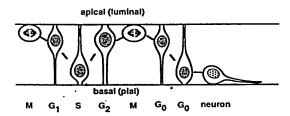
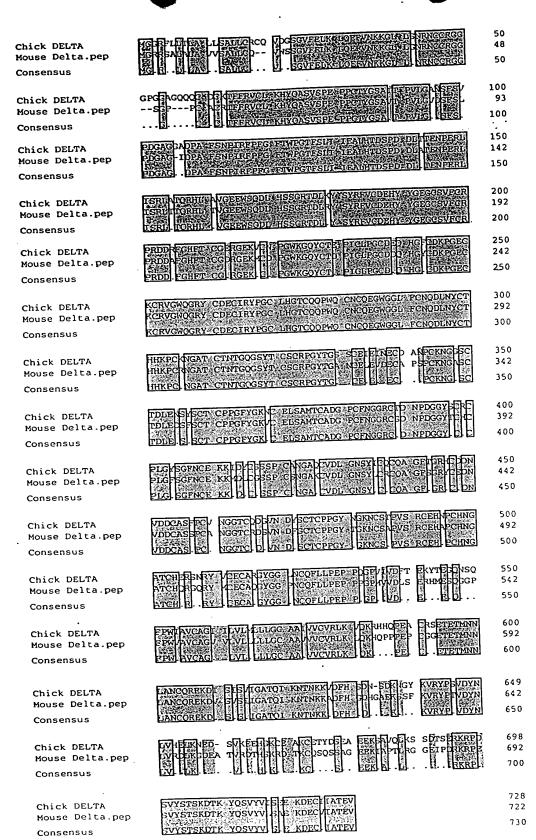


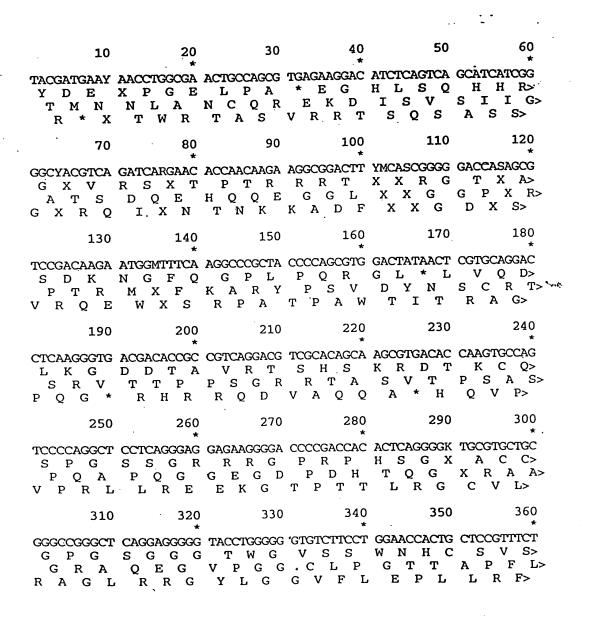
FIG. 6A

	CTGCAGGAAT	TCSMYCGCAT	GCTCCCGGCC	GCCATGGGCC	GTCGGAGCGC	GCTAGCCCTT	60
	GCCGTGGTCT	CTGCCCTGCT	GTGCCAGGTC	TGGAGCTCCG	GCGTATTTGA	GCTGAAGCTG	120
	CAGGAGTTCG	TCAACAAGAA	GGGGCTGCTG	GGGAACCGCA	ACTGCTGCCG	CGGGGGCTCT	180
	GGCCCGCCTT	GCGCCTGCAG	GACCTTCTTT	CGCGTATGCC	TCAAGCACTA	CCAGGCCAGC	240
	GTGTCACCGG	AGCCACCCTG	CACCTACGGC	AGTGCCGTCA	CGCCAGTGCT	GGGTGTCGAC	300
	TCCTTCAGCC	TGCCTGATGG	CGCAGGCATC	GACCCCGCCT	TCAGCAACCC	CATCCGATTC	360
	CCCTTCGGCT	TCACCTGGCC	AGGTACCTTC	TCTCTGATCA	TTGAAGCCCT	CCATACAGAC	420
	TCTCCCGATG	ACCTCGCAAC	AGAAAACCCA	GAAAGACTCA	TCAGCCGCCT	GACCACACAG	480
	AGGCACCTCA	ĊTGTGGGAGA	AGAATGGTCT	CAGGACCTTC	ACAGTAGCGG	CCGCACAGAC	. 540
	CTCCGGTACT	CTTACCGGTT	TGTGTGTGAC	GAGCACTACT	ACGGAGAAGG	TTGCTCTGTG	600
	TTCTGCCGAC	CTCGGGATGA	CGCCTTTGGC	CACTTCACCT	GCGGGGACAG	AGGGGAGAAG	660
	ATGTGCGACC	CTGGCTGGAA	AGGCCAGTAC	TGCACTGACC	CAATCTGTCT	GCCAGGGTGT	720
	GATGACCAAC	ATGGATACTG	TGACAAACCA	GGGGAGTGCA	AGTGCAGAGT	TGGCTGGCAG	780
	GGCCGCTACT	GCGATGAGTG	CATCCGATAC	CCAGGTTGTC	TCCATGGCAC	CTGCCAGCAA	840
	CCCTGGCAGT	GTAACTGCCA	GGAAGGCTGG	GGGGGCCTTT	TCTGCAACCA	AGACCTGAAC	900
	TACTGTACTC	ACCATAAGCC	GTGCAGGAAT	GGAGCCACCT	GCACCAACAC	GGGCCAGGGG	960
	AGCTACACAT	GTTCCTGCCG	ACCTGGGTAT	ACAGGTGCCA	ACTGTGAGCT	GGAAGTAGAT	1020
	GAGTGTGCTC	CTAGCCCCTG	CAAGAACGGA	GCGAGCTGCA	CGGACCTTGA	GGACAGCTTC	1080
222	TCTTGCACCT	GCCCTCCCGG	CTTCTATGGC	AAGGTCTGTG	AGCTGAGCGC	CATGACCTGT	1140
	GCAGATGGCC	CTTGCTTCAA	TGGAGGACGA	TGTTCAGATA	ACCCTGACGG	AGGCTACACC	1200
is and	TGCCATTGCC	CCTTGGGCTT	CTCTGGCTTC	AACTGTGAGA	AGAAGATGGA	TCTCTGCGGC	1260
	TCTTCCCCTT	GTTCTAACGG	TGCCAAGTGT	GTGGACCTCG	GCAACTCTTA	CCTGTGCCGG	1320
ľ.Ō	TGCCAGGCTG	GCTTCTCCGG	GAGGTACTGC	GAGGACAATG	TGGATGACTG	TGCCTCCTCC	1380
Ų	CCGTGTGCAA	ATGGGGGCAC	CTGCCGGGAC	AGTGTGAACG	ACTTCTCCTG	TACCTGCCCA	1440
ijŪ	CCTGGCTACA	CGGGCAAGAA	CTGCAGCGCC	CCTGTCAGCA	GGTGTGAGCA	TGCACCCTGC	1500
U	CATAATGGGG	CCACCTGCCA	CCAGAGGGGC	CAGCGCTACA	TGTGTGAGTG	CGCCCAGGGC	1560
l. d.	TATGGCGGCC	CCAACTGCCA	GTTTCTGCTC	CCTGAGCCAC	CACCAGGGCC	CATGGTGGTG	1620
:	GACCTCAGTG	AGAGGCATAT	GGAGAGCCAG	GGCGGGCCCT	TCCCCTGGGT	GGCCGTGTGT	1680
:: :====	GCCGGGGTGG	TGCTTGTCCT	CCTGCTGCTG	CTGGGCTGTG	CTGCTGTGGT	GGTCTGCGTC	1740
البدا	CGGCTGAAGC	TACAGAAACA	CCAGCCTCCA	CCTGAACCCT	GTGGGGGAGA	GACAGAAACC	1800
IJ	ATGAACAACC	TAGCCAATTG	CCAGCGCGAG	AAGGACGTTT	CTGTTAGCAT	CATTGGGGCT	1860
, d	ACCCAGATCA	AGAACACCAA	CAAGAAGGCG	GACTTTCACG	GGGACCATGG	AGCCGAGAAG	1920
	AGCAGCTTTA	AGGTCCGATA	CCCCACTGTG	GACTATAACC	TCGTTCGAGA	CCTCAAGGGA	1980
-	GATGAAGCCA	CGGTCAGGGA	TACACACAGC	AAACGTGACA	CCAAGTGCCA	GTCACAGAGC	2040
1 5	TCTGCAGGAG	AAGAGAAGAT	CGCCCCAACA	CTTAGGGGTG	GGGAGATTCC	TGACAGAAAA	2100
5 7000	AGGCCAGAGT	CTGTCTACTC	TACTTCAAAG	GACACCAAGT	ACCAGTCGGT	GTATGTTCTG	2160
	TCTGCAGAAA	AGGATGAGTG	TGTTATAGCG	ACTGAGGTGT	AAGATGGAAG	CGATGTGGCA	2220
	AAATTCCCAT	TTCTCTTAAA	ТААААТТССА	AGGATATAGC	CCCGATGAAT	GCTGCTGAGA	2280
	GAGGAAGGGA	GAGGAAACCC	AGGGACTGCT	GCTGAGAACC	AGGTTCAGGC	GAACGTGGTT	2340
	CTCTCAGAGT	TAGCAGAGGC	GCCCGACACT	GCCAGCCTAG	GCTTTGGCTG	CCGCTGGACT	2400
	GCCTGCTGGT	TGTTCCCATT	GCACTATGGA	CAGTTGCTTT	GAAGAGTATA	TATTTAAATG	2460
	GACGAGTGAC	TTGATTCATA	TAGGAAGCAC	GCACTGCCCA	CACGTCTATC	TTGGATTACT	2520
	ATGAGCCAGT	CTTTCCTTGA	ACTAGAAACA	CAACTGCCTT	TATTGTCCTT	TTTGATACTG	2580
•	AGATGTGTTT	TTTTTTTTC	CTAGACGGGA	AAAAGAAAAC	GTGTGTTATT	TTTTTTGGGA	2640
	TTTGTAAAAA	TATTTTTCAT	GATTATGGGA	GAGCTCCCAA	CGCGTTGGAG	GT	2692

MGRRSALALA	VVSALLCQVW	SSGVFELKLQ	EFVNKKGLLG	NRNCCRGGSG	50
	VCLKHYQASV				100
	FGFTWPGTFS				150
	DLHSSGRTDL				200.
	CDPGWKGQYC				· 250
	GCLHGTCQQP				300
	YTCSCRPGYT				350
	VCELSAMTCA				400
	SPCSNGAKCV				450
					500
					550
					600
					650
EATVRDTHSK	RDTKCQSQSS	AGEEKIAPTL	RGGEIPDRKR	PESVYSTSKD	700
TKYQSVYVLS	AEKDECVIAT	EV			722
RYMCECAQGY GVVLVLLLLL DVSVSIIGAT EATVRDTHSK	VNDFSCTCPP GGPNCQFLLP GCAAVVVCVR QIKNTNKKAD RDTKCQSQSS AEKDECVIAT	EPPPGPMVVD LKLQKHQPPP FHGDHGAEKS AGEEKIAPTL	LSERHMESQG EPCGGETETM SFKVRYPTVD	GPFPWVAVCA NNLANCQREK YNLVRDLKGD	550 600 - 650 700

FIG. 8





400 410 420 390 380 370 CTTCCCAAAT GTTCTCATGC ATTCATTGTG GATTTTCTCT ATTTTCCTTT TAGTGGAĢAA L P K C S H A F I V D F L Y F P F S G E>
F P N V L M H S L W I F S I F L L V E K>
S S Q M F S C I H C G F S L F S F \* W R> 480 470 450 460 440 430 GCATCTGAAA GAAAAAGGCC GGACTCGGGC TGTTCAACTT CAAAAGACAC CAAGTACCAG A S E R K R P D S G C S T S K D T K Y Q>
H L K E K G R T R A V Q L Q K T P S T S>
S I \* K K K A G L G L F N F K R H Q V P> 520 490 500 510 TCGGTGTACG TCATATCCGA GGAGAAGGAC GAGTGCGTCA TCGCA V I S E E K D E C V s v y RCTSYPRRRTSAS VGVRHIRGEGRVRH

FIG. 10 (cont'd)

1	TMNNLANCQREKDISVSIIGATQIXNTNKKADFXXGDXSSDKNGFQKARY	50
597	TMNNLANCQREKDISISVIGATQIKNTNKKVDFHSDNSDKNGY.KVRY	643
		100
51	PSVDYNLVQDLKGDDTAVRTSHSKRDTKCQSPGSSGRRRGPRPHSGXACC	100
644	PSVDYNLVHELKNED SVKEEHGKCEAKCETYDSEAEEKSA	683
101	GPGSGGGTWGVSSWNHCSVSLPKCSHAFIVDFLYFPFSGEASERKRPDSG	150
	1:: 1::.1111111.	
684	VQLKSSDTSERKRPDSV	700
151	CSTSKDTKYQSVYVISEEKDECVIA 175	
	: [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [	
701	YSTSKDTKYQSVYVISEEKDECIIA 725	
, , ,	IDIDIDITIZED II I IDAM TOTAL T	

FIG. 11





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# (SHEET 25 OF 37)

*	10	* GGGCCCCC	20	*	30 *	*	40 *	*	50 *	*	60 *
CATTGGGT	AC										
*	70 *	*	80 *	*	90	*	100	*	110	*	120
CTTCACCT	GG	CCGGGCAC	CT	TCTCTC	TGAT	TATIGA	AGCT	CTCCAC	ACAG	ATTCTC	CTGA
1: *	30 *	, 1 *	40	*	150 *	*	160	*	170	*	180
		ACAGAAAA	CC	CAGAAA	GACT	CATCAG	cccc	CTGGCC	ACCC	AGAGGC	ACCT
1	90	2·	00	*	210	*	220	*	230	*	240
		CAGGAGTG									
* 25	50	* 2	50		270	*	280		290		300
		TICGIGIG									
* 3:	10	* 32 *	20	*	330		340	*	350		360
TCCCCGGG	AC	GATGCCTT	G	GCCACT	ICAC	CTGTGG	GGAG	CGTGGG	GAGA	AAGTGT	GCAA
37	70	* 38	90	*	390	*	400		410	*	420
CCCTGGCT	CG	AAAGGGCC									
<b>43</b>	30	44	10	*	450		460	•	470		480
GCATGGATT	ľŢ	TGTGACAA	VC	CAGOOGA	AATCI	CAAGIG	CAGA	G'IGGGC	TGGC	AGGGCC	GGTA
4 <u>9</u> *	90	50	00	*	510	•	520		530		540
CTGTGACGA		'l'GTATCCG(	T:	ATCCAGO	CTG	TCTCCA	TGGC	ACCTGC	CAGC	AGCCCT	GGCA
55	0.0	56	0	*	570		580	•	590		600
GTGCAACTC	SC										
61	0	<b>6</b> 2	0	•	630		640		650		660
ACACCATAA											
67 ACTTGGTCI	0	68	0		690	•	700	•	710		720
ACTTGGTCT	T	'I'GGCCGGNC	T	GGGGTAC	ANA	GGGTGC	CACC	TGCGAA	3CTT	GGGGAT	rgga
73	0	74	0	*	750	*	760	•	770	•	780
CGAGTTGTT	G	ACCCCAGCC	C	TTGGTAA	AGAA	CGGAGG	GAGC	'l''[GACG	CYLAE	TTCGGA	AAC
<b>7</b> 9	0	* 80	0	*	810	*	820	*	830		840
AGCTACTCC	T	GTACCTGCC	C	ACCCGGC	CTTC	TACOOC	AAAA	TCIGIG			CATG
<b>8</b> 5	0	<b>*</b> 86	0	•	870		880		890		900
ACCTGTGCG	G										ACCC



# (SHEET 26 OF 37)

910	920	930	940	950	960 * *
TACAGCTGCC	GCIGCCCCGT	GGGCTACTCC	GGCTTCAAC'I'	GTGAGAAGAA	AATTGACTAC
970 * *	980	990	1000 * *	1010	1020 * *
				ACCTCGGTGA	
1030	1040	1050 * *	1060 * *	1070	· 1080 * *
TGCCGCTGCC	AGGCCGGCTT	CTCGGGGAGG	CACTGTGACG	ACAACGTGGA	CGACTGCGCC
1090	1100	1110	1120	1130	1140
TCCTCCCCCT	GCGCCAACGG	GGGCACCTGC	CCGGATGGCG	TGAACGACTT	CTCCTGCACC
1150	1160	1170	1180 * *	1190	1200
TGCCCGCCIG	GCTACACGGG	CAGGAACTGC	AGTGCCCCCG	CCAGCACOTG	CGAGCACGCA
1210	1220	1230	1240	1250	1260
CCCTGCCACA	ATGGGGCCAC	CTGCCACGAG	AGGGCCVCC	GCTATATGTG	CGAGTGTGCC
1270	1280	1290	1300	1310	1320
CGAAGCTACG	GGGGTCCCAA	CTUCCANTTC	CTGCTCCCCC	AAACTGCCCC	CCCGGCCCCA
1330	1340	1350	1360	1370 * *	1.380
* * CGGTGGTGGA	* * AAC'ICCCCTA	AAAAAACCTA	AAAGGGCCGG	GGGGGGCCCA	TCCCCTTGGT
1390	1400	1410	1420	1430	1440
* * GGACGTGTGC	* * GCCGGGGTCA	* * TCCTIGTCCT	* * * CATGCTGCTC	CTGGGCTGTG	* * *
				1490	
* * GGTCTGCGTC	* * CGGCTGAGGC	* * TGCAGAAGCA	* * CCGGCCCCCA	CCCGACCCCT	* * GNCGGGGGGA
				1550 * *	
* * GACGGAGACC	* *	* * TGGNCAACTG	CCAGCGIGAG	* * AAGGACATCT	CAGTCAGCAT
				1610	
* *	* * ACGCAGATCA	* *	* * CAAGAAGGCG	* + GACTTCCACG	GGGACC'ACAG
1630 * *			1660 * *	GACTATAACC	* *
				1.730	1740
1690 *			1720 * *	AAGCGTGACA	* *
* *				1790 CCACACTCAG	
1810	1820 * *	1830	1640	1850	1860 * *

AAGCATCITG AAAGAAAAG GCCGGACTTC GGGCTTGITC AACTITCAAA AGACAANCAA

1870 1880 1890 1900 1910 1920

NGTACAAGTC GGTGTNCGTC ATTTCCGNAG GAGGAAGGNT GACTGCGTCA TAGGAANTTG

1930 1940 1950 1960 1970 1980

AGGTNGTAAA NTGGNAGTTG ANNITIGGAAA GNNNTCCCCG GATTCCGNTT TCAAAGTTTT



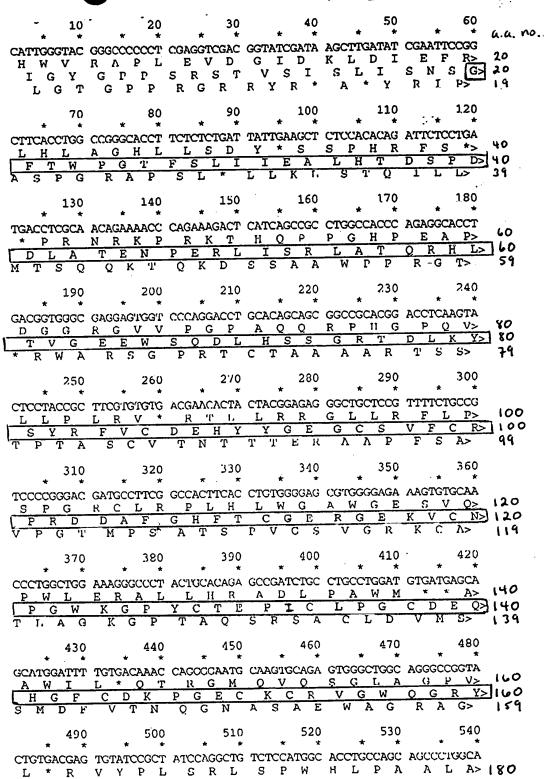


FIG. 12B

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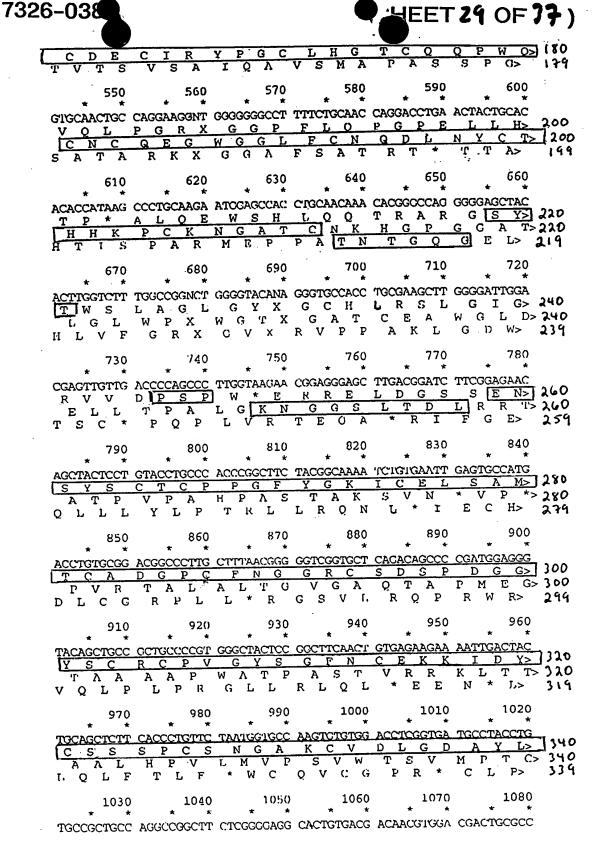


FIG. 12B (cont'd)





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# (SHEET 30 OF 37)

C R C Q A G F S G R H C D D N V D D C A> 360  A A A R P A S R G G T V T T T W T T A P> 360  V P L P G R L L G F A L * R Q R G R L R> 359
1090 1100 1110 1120 1130 1140
TCCICCCCGT GCGCCAACGG GGGCACCTGC CGGGATGGCG TGAACGACTT CTCCTGCACC  S S P C A N G G T C R D G V N D F S C T> 3 YO  P P R A P T G A P A G M A * T T S P A P> 3 YO  L L P V R Q R G H L P G W R F R I. L L H> 379
1150 1160 1170 1180 1190 1200
TGCCCCCCCC CYCEDACD CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
C P P G Y T G R N C S A P A S R C E H A> \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
1210 1220 1230 1240 1250 1260 * * * * * * * * * * * * * * * *
CCCTGCCACA ATGGGUCCAC C'IGUCACGAG AGGGGCCACC GCTATATIGTG CGAGTGTGCC  P C H N G A T C H F R G H R Y X C E C A> 420
PAT MGPPATRGATAIC ASVP>420 TLPQ WGH LPREGPP LFV RVC> 419
1270 1280 1290 1300 1310 1320 * * * * * * * * * * * * * * * * * * *
CGAAGCTACG GGGGTCCCAA CTGCCANTTC CTGCTCCCCG AAACTGCCCC CCCGGCCCCA  R S Y G G P N C X F L L P E T A P P A P> 440  E A T G V P T A X S C S P K L P P R P H> 440  P K L R G S Q L P X P A P R N C P P G P> 439
·
1330 1340 1350 1360 1370 1380 * * * * * * * * * *  CGGTGGTGGA AACTCCCCTA AAAAAACUTA AAAGGGCCCGG GGGGGGCCCA TCCCCTTGGT  R W W K L P * K N L K G P G G A H P L G> 440
RWWKLP*KNLKGPGGAHPLG>440 GGGNSPKKT*KGRGGPIPLV>440 TVVFTPLKKPKRAGGGPSPW>459
1390 1400 1410 1420 1430 1440
GGACGTGTGC GCCGCGTCA TCCTTGTCCT CATGCTGCTG CTGGGCTGTC CCGCTGTGGT  G R V R R G Ĥ P C P H À À À G L C R C G> 480  - D V C À G V I L V L M L L G C À À V V> 480  W T C À P G S S L S S C C C W À V P L W> 434
1450 1460 1470 1480 1490 1500  * * * * * * * * * * * * * * * * * *
G L R P A E A A E A P A P S R P L X G G> 500  V C V R L R L Q K H R P P A D P X R G E> 500  W S A S G * G C R S T G P Q P T P X G G> 494
1510 1520 1530 1540 1550 1560 . * * * * * * * * * * * * * * *
GACGGAGACC ATGAACAACC TGGNCAACIG CCAGCGTGAG AAGGACATCT CAGTCAGCAT  D C D H E O P C Q L P A * E G H L S Q H> 520  T E T M N N L X N C Q R E K D I S V S I> 520
R R R P * T T W X T A S V R R T S Q S A> 519  1570 1580 1590 1600 1610 1620
1570 1580 1590 1600 1610 1620 * * * * * * * * * * * * * * * * * * *

FIG. 12B (cont'd)

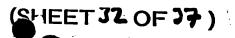


### (SHEET 31 OF 37)

CATCGGGGNC ACGCAGATCA AGAACACCAA CAAGAAGGCG GACTTCCACG GGGACCACAG H R G H A D Q E H Q Q E G G L P R G P Q> 540  I G X T Q I K N T N K K A D F H G D H X> 540 S S G X R R S R T P T R R R T S T G T T> 539
1630 1640 1650 1660 1670 1680  ***  ***  **  **  **  **  **  **  **
1690 1700 1710 1720 1730 1740  * * * * * * * * * * * * * * * * * * *
1750 1760 1770 1780 1790 1800  GCCCCAGGGC TCCTCAGGGG AGGAGAAGGG GACCCCCGAC CCACACTCAG GGGGTGGAGG  A P G L L R G G F G D P R P T L R G W R> 600  P O G S S G E E F G T P D P H S G G G G> 600  S P R A P Q G R R R R C P F T H T Q G V F> 544
1810 1820 1830 1840 1850 1860  AACCATCTIC AAAGAAAAAG GCCGGACTIC GGGCTIGTTC AACTITCAAA AGACAANCAA  K H L E R K R P D F G L V Q L S K D X Q> 620  S I L K E K G R T S G L F N F Q K T X X> 620 E A S * K K K A G L R A C S T F K R Q X> 619
1870 1880 1890 1900 1910 1920  NGTACAAGTC GGTGINCGTC ATTICCGNAG GAGGAAGGNT GACTGCGTCA TAGGAANI'IG  X T S R C X S F P X E E G * L R H R X L> 640  V Q V G V R H F R R R K X D C V T G X *> 640  X Y K S V X V I S X G G R X T A S * E X> 634
1930 1940 1950 1960 1970 1980  AGGINGTAAA NIGGNAGTIĜ ANNITKKJAAA GNNNITCCCCO GATTCCCNITI TCAAAGITITI R X * X G S * X W K X X P G F R F Q S F> G C C C C C C C C C C C C C C C C C C

FIG. 12B (cont'd)

1





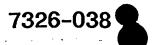
		•	
	Mouse Delta DNA Human Delta	GTCCAGCGGT ACCATGGGGC GTCGGAGCGC GCTAGCCCTT GCCGTGGTCT	50
	Consensus	GTCCAGCGGT ACCATGGGCC GTCGGAGCGC GCTAGCCCTT CCCGTGGTCT	50
	Mouse Delta DNA Human Delta	CTGCCCTGCT GTGCCAGGTC TGGACCTCCG GCGTATTTGA GCTGAAGCTG	100
	Consensus	CTGCCCTGCT GTGCCAGGTC TGGAGCTCCG GCGTATTTGA GCTGAAGCTG	100
	Mouse Delta DNA Muman Delta	CAGGAGTTCG TCAACAAGAA GGGGCTGCTG GGGAACCGCA ACTGCTGCCG	150
	Consensus	CAGGAGITCG TCAACAAGAA GGGGCTGCTG GGGAACCGCA ACTGCTGCCG	150
	Mouse Delta DNA Human Delta	CGGGGGCTCT GGCCCGCCTT GCGCCTGCAG GACCTTCTTT CGCGTATGCC	200
	Consensus	CGGGGGCTCT GCCCCGCCTT GCCCCTGCAG GACCTTCTTT CGCGTATGCC-	200
	Mouse Delta DNA Human Delta	TCAAGCACTA CCAGGCCAGC GTGTCACCGG AGCCACCCTG CACCTACCGC	250
	Consensus	TCAAGCACTA CCAGGCCACC GTGTCACCGG AGCCACCCTG CACCTACGGC	250
	Mouse Delta DNA Human Delta	AGTGCTGTCA CGCCAGTGCT GGGTGTCGAC TCCTTCAGCC TGCCTGATTG	300 5
IJ .g	Consensus	AGTGCTGTCA CGCCAGTGCT CGGTGTCGAC TCCTTCAGCC TGCCTSATTG	300
	Mouse Delta DNA Human Delta Consensus	CONTRACTOR CONCERNATION CONTRACTOR CATEGORY CATEGORY CATEGORY CATEGORY CATEGORY CATEGORY CATEGORY CATEGORY CATEGORY	343 55 350
U	Mouse Delta DNA Kuman Delta Consensus	THE GEORGE CONGRESS OF THE CONTROL O	393 105 400
- 4	Mouse Delta DNA Human Delta Consensus	TACAGA TOT COGATGACO TOGCAACAGA AAACCCAGAA AGACTCATCA CACAGAITOT COGGATGACO TOGCAACAGA AAACCCAGAA AGACTCATCA AACAGAATTCT COGGATGACO TOGCAACAGA AAACCCAGAA AGACTCATCA	443 155 450
2	Mouse Delta DNA Human Delta Consensus	GCCGCCTGSC CACCAGAGG CACCTCACTG TGGGSGALGA TTGGTCTCAG GCCGCCTGSC CACCCAGAGG CACCTGACGG TGGGCGALGA TTGGTCCCAG GCCGCCTGSC CACCAGAGG CACCTGACAG TGGGSGALGA TTCGTCCCAG	493 205 500
	fouse Delta DNA Iuman Delta Consensus	GACCTICACA GIAGCGGCCG CACAGACCTC AGTACTCIT ACCOUNTED GACCTICACA GIAGCGGCCG CACAGACCTC AGTACTCIT ACCOUNTED GACCTICACA GIAGCGGCCG CACAGACCTC AGTACTCIT ACCOUNTED	543 255 550
1	iouse Delta DNA Iuman Delta Consensus	GTGTGACGAS CACTACTACG GAGA-GGTTG CTC GTTTTC TGCCGACCIC GTGTGACGAA CACTACTACG GAGA-GGTTG CTC GTITTC TGCCGICCCC GTGTGACGAR CACTACTACU GAGA-GGTTG CTC METWITC TGCCGACCAC	593 305 600
H	ouse Delta DNA uman Delta onsensus	GGGATGATGC CTTTGGCCAC TTCACCTGC GGGALAGAGG GGAGAAGATG GGGALGATGC CTTTGGCCAC TTCACCTGTG GGGAGAGGGG GGAGAAAGTG GGGAMGAMGC CTTMGGCCAC TTCACCTGMG GGGAGMGMGG GGAGAARRTG	643 355 650

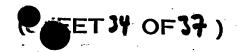


#### Mouse Delta vs Partial Human Delta

Mouse Delta 1 Ruman Delta Consensus		TECHACCOTE GOTEGAAAGE CONTRACTEC ACHGALOGIA TOTELETGOO TECHACCOTE GOTEGAAAGE TOTELETGO ACHGALOGIA TOTELETGOO TECHACCOTE GOTEGAAAGE TOTELETGO ACHGALOGIA TOTELETGOO	693 405 700
Mouse Delta I Human Delta Consensus		ACCUTATION CALCANCATO GATACTOTES CASACCAGGG GASTGCAAGT TOCHTOTAT CASCASCATG GATHUTGTGA CASACCAGGG GASTGCAAGT .  NOCHTGTGAT GASCASCATG GATWITGTGA CASACCAGGG GASTGCAAGT	743 455 750
Mouse Delta I Human Delta Consensus	DNA	GCAGAGTIGG CTGGCAGGGC COTTACTO G AIGAGTG AT CCGITALCCA GCAGAGTIGG CTGGCAGGGC COTTACTG IG AIGAGTG AT CCGITALCCA GCAGAGTIGG CTGGCAGGGC COTTACTG IG AIGAGTG AT CCGITALCCA	793 505 800
Mouse Delta I Human Delta Consensus	ANG	GOVERNOUS ATGGERECTS CERGERICE TEGERETOR ACTGERAGA GOVERNOUS ATGGERECTS CERGERICE TEGERATER ACTGERAGA GOVERNOUS ATGGERECTS CERGERICE TEGERATER ACTGERAGA GOVERNOUS ATGGERECTS CERGERICE TEGERATER ACTGERAGA	843 555 850
Mouse Delta l Human Delta Consensus	אמט	AGG TIGGGGG GGCCTTTTCT GCAACCA GA CCTGAACTAC TGTACTCACC AGG TIGGGGG GGCCTTTTCT GCAACCA GA CCTGAACTAC TGTACCACCC AGG TIGGGGGG GGCCTTTTCT GCAACCA GA CCTGAACTAC TGTACCACCC	893 605 900
Mouse Delta II Human Delta Consensus	And	ATAACCCTTG CAGGAATGGA GCCACCTGCA CTAACACGG GCCAGGGG A ATAAGCCTTG CAAGAATGGA GCCACCTGCA ACAACACGG GCCAGGGGA ATAAGCCTTG CAAGAATGGA CCCACCTGCA CAAACACGG GCCAGGGGA	941 655 950
Mouse Delta I Human Delta Consensus	מאכ	GCTACACHTG HTCHT-GCC GKCKIGGGT ANALYGGTG CCACTGGA GCTACACHTG HTCHTIGGCC GGKKKGGGT ANALYGGTG CCACTGGA GCTACACHTG KTCHTIGGCC LGKKKGGGT ANALYGGTG CCACTGGA	986 705 1000
Monee Delta I Human Delta Consensus	ANG	AGCTGGAA GINGANGAGT TGTTCTTCCT AGCCCTTGC AAGAACGGAG AGCTTGGGAA KITGGANGAGT TGTTCAVCCV AGCCCNTGGV AAGAACGGAG AGCTTGGGAA KITGANGAGT TGTTCAVCCV AGCCCNTGGV AAGAACGGAG	1031 755 1050
Mouse Delta I Human Delta Consensus	DNA	GAGCTECAC GGALCTT-G AGRACAGCTE CTCHTCLACC TGCCCHCCGGGAGCTECAC GGALCTTCGG AGRACAGCTA CTCHTGHACC TGCCCCCCGGGAGACAGCTW CTCHTGHACC TGCCCCCCCG	1079 805 1100
Mouse Delta I Human Delta Consensus	ANC	GETTETATIGG CAARGETETET GARGEGAGE CEATGACCTE TECHGATEGE GETTETATIGG CAARGETETET GARGEGAGE CEATGACCTE TECHGAGEGE GETTETATIGG CAARGETETET GARGEGAGEG CEATGACCTE TECHGAGEGE	1129 855 1150
Mouse Delta I Human Delta Consensus	ANC	CCTTGCTTIA ANGGREGICG MIGHTCAGAN ANCCCUGANG GAGGITACAS CCTTGCTHIA ANGGREGICG RECTCAGAN ANCCCUGANG GAGGITACAS	1179 905 1200
Mouse Delta I Human Delta Consensus	DNA ·	CTGCCATTGC CCCTTGGGCT ICTCTGGCTT CAACTGTGAG AAGAALATTGC CTGCCTTGC CCCTGGGCT ICTCTGGCTT CAACTGTGAG AAGAALATTGC CTGCCRYTGC CCCTTGGGCT ICTCTGGCTT CAACTGTGAG AAGAALATTGC	1229 955 1250
Mouse Delta 1 Human Dolta Consensus	ANA	ATCTCTCCG CTCTTCCCT TGTTCTAACG GTGCCAAGTG TGTGGACCTC ACTACTGCG CTCTTCCCCT TGTTCTAACG GTGCCAAGTG TGTGGACCTC AYYWCTGCTG CTCTTCCCT TGTTCTAACG GTGCCAAGTG TGTGGACCTC	1279 1005 1300

FIG. 13 (cont'd)





### Mouse Delta vs Partial Human Delta

Mouse Delta DNA Human Delta Concensus	CONTAINENT ACCTOTECCO TROCCAGGOY GOCTTOTE GOAGGIACTO	1329 1055 1350
Mouse Delta DNA Ruman Delta Consensus	ACVENTIVE CLEONARYCH (ARCCLECLE CCCCLERCH VYRCCCCCCY ACVENTY CLEONARYCH CACCLECLE CCCCLCAC VYRCCCCCCY ACVENTY CLEONARYCH (ARCCLECLE CCCCLCAC VYRCCCCCCCY ACVENTY CLEONARYCH (ARCCLECLE CCCCLCAC VYRCCCCCCCY ACVENTY CACCONTRACT (ARCCLECLE CCCCLCAC VYRCCCAC VYRCCCCCCCY ACVENTY CACCONTRACT (ARCCLECLE CCCCLCAC VYRCCCA VYRCCCCCCC	1379 1105 1400
Mouse Delta DNA Human Delta Consensus	CCTGCCGGGA CAGTGTGAAC GACTTCTCCT GTACCTCCCC CCTGGCTAC CCTGCCGGGA TGGTGTGAAC GACTTCTCCT GTACCTCCCC CCTGGCTAC CCTGCCGGGA TREAGTGAAC CACTTCTCCT GTACCTGCCC TCCTGGCTAC	1429 1155 1450
Mouse Delta DNA Human Delta Consensus	ACGGCCANGA ACTGCAGGC CCCGGCAGC AGGTGGAGC AGCACCCTG ACGGCCAGA ACTGCAGGC CCCGCCAGC AGGTGGAGC AGCACCCTG ACGGCAGA ACTGCAGGC CCCGGCAGC AGGTGGAGC AGCACCCTG	1479 1205 1500
Mouse Delta DNA fluman Delta Consensus	CCATANTEGE CCCACCTECC ACTAGAGGG CCACCECTAL ATETERSAGT CCACANTEGE CCACCTECC ACTAGAGGG CCACCECTAL TETERGAGT CCAMANTEGE CCCACCTOC ACTAGAGGG CCACCECTAL WIGTGAGAGT	1529 1255 1550
House Delta DNA Human Delta Consensus	GECCENSE CTANGESCOY CCCAACTGCC APTRETECT CCCGAARCT	1578 1305 1600
House Delta DNA Human Delta Consensus	-ACCACOAGG CCCCANGGTG GTGG-ALCTC AGTGATAGGC ATAT-GCACA GCCCCCCGG CCCCANGGTG GTGGAAACTC CCCTAAAAAA ALCTAAAACT GM:CMCCMGG CCCCANGGTG GTGGAAMCTC MSYMAAARRM AMMTARRACR	1625 1355 1650
Mouse Delta DNA Muman Delta Consensus	GCC-GGGSG GCCC-TCCCCC TAGGTGCCG TGTGTGCGG GGTGATCCTT	1675 1405 1700
Mouse Delta DNA Human Delta Consensus	CTCCTC TGC TGCTGCTGGG CTGTGCTGCT GTGGTGGTCT GCGTCCGGCT CTCCTCTTGC TGCTGCTGGG CTGTGCCGCT GTGGTGGTCT GCGTCCGGCT CTCCTCTTGC TGCTGCTGGG CTGTGCTGCT GTGGTGGTCT GCGTCCGGCT	1725 1455 1750
Mouse Delta DNA Human Delta Consensus	GANGUTICAG AANGACORGO CIRCOA CIRGA ECCUTRITAGA GAGAGAGACAG GALGUTICAG AANGACORGO CIRCOA CIRGA ECCUTRITAGA GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	1775 1505 1800
Mouse Della DNA Human Delta Consensus	AMACCATGAA CAACCTECTC AATTGCCAGC GGAGAAGGA CHITTCHGTI AMACCATGAA CAACCTECAC AATTGCCAGC GIGAGAAGGA CHITTCHGTC AMACCATGAA CAACCTECAC AATTGCCAGC GYGAGAAGGA CHITTCHGTY	1825 1555 1850
Mouse Delta DNn Human Delta Consensus	AGCATCATIG GGG:TAC CA GATCAGAAC ACCAACAGA AGGCGGACTT AGCACAGA GGCGACTT AGCACAGA AGAACAACA CACAGACAGA AGGCGGACTT AGCACAGACAGA AGACAGACAGA CACAGACAGA AGGCGGACTT	1875 1605 1900
Mouse Delta DNA Human Delta Consensus	TCACGCGAC CALGGAGCOA ACAAGAACAG CTTHAAGGIC CGATACCCAA CCACGCGGAC CALAGAGCCA ACAAGAATGG CTTLAAGGIC CGCTACCCAG ACAAGACAG CTTLAAGGIC CGCTACCCAG	1925 1655 1950

FIG. 13 (cont'd)



#### Mouse Delta vs Partial Human Delta

	•		
	Mouse Delta DNA Human Delta Consensus	CIGTGGACTA TAACCTCCIII CEAGACCTCA AGGGAGAIGA AGCCACGTC NGGTGGACTA TAACCTCGTC CAGGACCTCA AGGGAGAAGA ARCCTCGTC NKGTGGACTA TAACCTCGTK CREGACCTCA AGGGAGAAGA ARCCTCGGTC	1975 1705 2000
	Mouse Delta DNA Human Delta Commensus	AGGGATACTO ACAGCAATCO TGACACCAAG TGTCAGTCTC AGTGCTCTCC AGGGCACCC ACAGCAATCO TGACACCCAAG TGACAGCCC AGGGCTCTTC AGGGCACCCAAG TGACACCCAAG TGACACCAAG TGACACCAACACAACA	2025 1755 2050
	Mouse Delta DNA Human Delta Consensus	AGGREANGAG AAGATCE CCCCAACA CTHA GGGGT GG GG AGAT AGGGGAGAG AAGGGGAACE CCEACCTACA CTHAGGGGGT GGAGGAACEA AGGGGAGAGA AAGGGGAACE CCEACC ACA CTHAGGGGGT GGAGGAACAW	2067 <sup>.</sup> 1805 2100
	Mouse Delta DNA Human Delta Consensus	TOTTGANAGA AAAAGGCCTG ANTITT-GTC TACTCHACHT TCAAAAGACA TCHTGANAGA AAAAGGCCTG ANTIYGGGYY TRYTCMACHT TCAAAAGACA	23.13 1855 2150
յեւս կութ տար	Mouse Velta DNA Human Delta Consensus	-ACTAPOTAC CAGTOGOTOT NICTICATIC TOTAGNA- A AGOSTICATIC ANCENGATICA PACTOGOTOT NICTICAMITIC CONACCACIOA AGOSTICATIC ANCENACIACIO AGOSTICATIC NICTICAMITIC MONACCACIO AGOSTICATIC	2160 1905 2200
Your Hash Your York	Mouse Delta DNA Human Delta Consensus	NGTHATA GE GACTGAGCT- STAARANTGGA AGCGATGTGG CAAAANTTCC CGTTATAGGA ANTIGAGCTU GTAARANTGGU AGCT-TGGANNTT VGTMATAGGM RNYTGAGCTU GTAARANTGGU AGCGATGTGG CAANANTTCCC	2208 1945 2250
4 11	Mouse Delta DNA Human Delta Consensus	ATTICTCTOA AATAAAAITO CAAGGATATA GOOCCGATGA ATGOTTOTGAGGA AACNNN- TO COOGGATICCGATTIC ATTICTCKGA AAKNNNATIO CAACGATATA GOOCCGATGA ATGOTTOTGA	2258 1972 2300
	Mouse Delta DNA Human Delta Consensus	GAGAGGAAGG GAGAGGAAAA: CCAGGGACTG TITCTTDAGAA CCAGGTTCAG	2308 1981 2350
	Mouse Delta DNA Human Delta Consensus	GCGAAGCTGG TTCTCTCAGA GTTAGCAGAG GCGCCCGACA CTGCCAGCCT	2358 1981 2400
	Mouse Dolta DNA Human Dolta Consensus	AGGCTTTGGC TGCCGCTGGA CTGCCTGCTG GTTGTTCCCA TTGCACTATG	2408 1981 2450
	Mouse Delta DNA Human Delta Consensus	C101/mman	2458 1981 2500
	Mouse Delta DNA Human Delta Consensus	mm10023200 2000200000000000000000000000000	2508 1981 2550
	Mouse Delta DNA Human Delta Consensus	GTCPTTCCTT CAACTACAAA (ACCAACTACAA	2558 1951 2600



### Mouse Delta vs Partial Human Delta

Mouse Delta Human Delta	<b>D</b> 1-1-1				AAAAAGAAAA	~	2608 1981 2650
Consensus				•	<b>AAAADAAAA</b>		•
Mouse Delta		TTTTTTGGGA	TTTGTAAAA	TATTTTYCAT	GATATCTGTA	AAGCTTGAGT	2658 1961
Human Delta Consensus	•	TTTTTGGGA	ттсталлаа	TATTTTCAT	GATATCTGTA	AAGCTTGAGT	2700
Mouse Delta		<b>ATTTGTGAC</b>	GTTCATTTT	TTATAATTTA	AATTTTGGTA	ANTATGTACA	2708 1981
Human Delta Consensus						AA'TATGTACA	2750
Mouse Delta		AAGGCACTTC	GGGTCTATGT	GACTATATTT	TTTTGTATAT	AAATGTATTT	2758 1981
Human Delta Consensus		PAGGCACTIC				AAATGTATTT	2800
Mouse Delta		ATGUAATA'IT	GTGCAAATGT	TATTTGAGTT	TTTTACTGTT	TTGTTAATGA	2808 1981
Human Delta Consensus	i.					TTGTTAATGA	2850
Mouse Delta		AGAAA MTCAT	TTTAAAAATA	TTTTTCCAAA	ATAXATA .	TGAACTACA	2857 1981
Numan Delta Consensus	•				AKTAAATA .		2899

### (SHEET OF ST)

GFTW PGT FSLI IEALHT DSP DS DLATEN PERL I SRLAT QRH L> 41 TVGEEWSQDL HSSGRT DLK Y> 61 SYRFVCDEHYYGEGCSVFCR> 81 PRDDAFGH<u>FTCGERGEKVCN> [0]</u> PGWKGPYCTEPICLPGCDEQ> 121 HGFCDKPGECKCRVGWOGRY> |4| CDECIRYPGCLHGTCQQPWO>161 CNCQEGWGGLECNQDLNYCT> | 8| TN TGQ G # 198 HHK\_PCKNGATC \* SYT \* PSP \* KN GGS L T D L \* 213 B-NSYSCTCPPGFYGKICELSAM> 235 TCADGPCFNGGRCSDSPDGG> 255 YSCRCPVGYSGFNCEKKIDY> 275 CSSSPCSNGAKCVDLGDAYLD 245 CRCQAGFSGRHCDDNVDDCA> 315 S S P C A N G G T C R D G V N D F S C T> 335 CPPGYTGRNCSAPASRCEHA> 355 PCHNGATCHERGHRY \* CECA> 374 RSYGGPNC \* FLLPE \* PPGP\*391 VV \* LL L GC A A V V V C V R L R L Q K H>412 RPPADP \* RGETETMNNL \* 428 NCQREKDISVSIIG \* TOIKNTN> 449 KKADFHGDH \* ADKNGFKARYP \* 469 V DYNLVODLKG DDT AVRD AHS KRD T K \* 495 OPOGSSGEEKGTP \* PTLR \* GG \* 514 \* RKRP \* S \* S T \* S K D \* T \* 526 T CV I \* EV \* 531

FIG. 14